[](http://www.google.com.au/imgres?imgurl=http://www.wackystock.com/thumbnail/6203-woman-wearing-a-helmet-and-riding-a-bicycle-clipart-picture-by-dennis-cox-at-wackystock.jpg&imgrefurl=http://www.wackystock.com/tag/bicycles-clipart&usg=__tXKISR0r_ENTXow0KjHj7uth30U=&h=170&w=170&sz=15&hl=en&start=210&um=1&itbs=1&tbnid=JKN0KhpTa84gFM:&tbnh=99&tbnw=99&prev=/images%3Fq%3Dbicycle%2Bclip%2Bart%2Bfree%26start%3D198%26um%3D1%26hl%3Den%26sa%3DN%26rlz%3D1T4GGLL_enAU353AU354%26ndsp%3D18%26tbs%3Disch:1)[](http://www.google.com.au/imgres?imgurl=http://www.imageenvision.com/450/29287-royalty-free-cartoon-clip-art-of-a-happy-boy-riding-a-brand-new-blue-bike-by-andy-nortnik.jpg&imgrefurl=http://www.imageenvision.com/clipart/29287-royalty-free-cartoon-clip-art-of-a-happy-boy-riding-a-brand-new-blue-bike-by-andy-nortnik&usg=__sR0jgqdihgVY96oLXazCr3IcP9U=&h=450&w=450&sz=208&hl=en&start=38&um=1&itbs=1&tbnid=rFI4VQbNm2EIqM:&tbnh=127&tbnw=127&prev=/images%3Fq%3Dbicycle%2Bclip%2Bart%2Bfree%26start%3D36%26um%3D1%26hl%3Den%26sa%3DN%26rlz%3D1T4GGLL_enAU353AU354%26ndsp%3D18%26tbs%3Disch:1) **Lucy and George want to buy**

**new bicycles**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Lucy and George each want to buy a new bicycle, which will cost $350.
2. Lucy opened a savings account with $50. She got a job and saves $30 per week. Unfortunately she does not get any interest added to her account.
3. George started a savings account with $75. He’s saving $25 per week

Same non-interest bearing bank.

1. **Your task**:
2. Make tables of values showing how much money is saved after each week. Remember to begin on week zero
3. End the table when each has saved enough money to buy the bike
4. Write an equation that shows the connection between the money saved and the week of saving.
5. Graph both equations on one set of axes.
6. **Questions to answer**:
7. Where do the lines intersect?
8. What does this represent?
9. How long will it take each person to save enough money to buy a bicycle?
10. Is this a realistic problem?
11. What could interfere with their plans?